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Application Serial No. 09/____ 714
In reply to Office Action of 30 September 2004

Attorney Docket No. 82937

AMENDMENTS TO THE CLAIMS

Claims 1-3 (canceled).

4. (previously presented) A method providing a stand-alone testing environment for a test object functional element of a computer system, said test object functional element having a plurality of interfaces for coupling with other elements of said computer system, said interfaces being of a type which provide communication between functional elements and which employ a predetermined interface protocol for inter-processing communication whose mode of operation involves a shared memory such that information communicated through said interfaces is passed between said functional elements by a process of notifying the addressed functional element that information is ready and providing the addressed functional element with its location in said shared memory, wherein said predetermined interface protocol is further of a type in which the location of information is distributed among a set of at least two hierarchical levels of a database formed in association with said shared memory, said hierarchical levels being organized by degree of generality of functional interface task information to be stored therein, said method comprising:

providing a computerized dialog to enable a user to create an input data file for said test object functional

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element in a form for subsequently being stored in an identifiable location in said shared memory;

prompting a user for at least one functional element interface task which has been previously developed utilizing said stand alone testing environment and which is of form compliant with said predetermined interface protocol and which is stored with its identifiable location in said shared memory;

starting said at least one functional element interface task utilizing said computer dialog created input data file;

monitoring said plurality of interfaces; and

creating a test case generation file by providing the user with a corresponding set of task creation options related to said at least one functional element interface task individually operative with a degree of generality of functional task information that is to be stored in a corresponding individual level of said set of at least two hierarchical levels of said database.

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5. (previously presented) The method of claim 4 further comprising storing a unique interface file corresponding to each functional element interface task selected by a user in response to said prompting.

6. (previously presented) The method of claim 5 further comprising storing said user created input data file in a user defined functional element interface task file such that said user created file may be viewed and edited outside of said stand alone testing environment.

7. (canceled)

8. (currently amended) The method of claim [[7]] 11 wherein said step of creating a test generation file further comprises selecting test initiation features.

9. (canceled).

10. (canceled).

11. (currently amended) The A method of claim 7 for testing a test object functional element of a computer system with a

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stand-alone functional element test tool, said test object
functional element having at least one interface for
communicating with other functional elements of said computer
system, said at least one interface having a predetermined
interface protocol for inter-processing communication, wherein
said predetermined interface protocol for inter-processing
communication employs a mode of operation involving a memory
shared among said test object and said other functional elements
and in which information to be communicated through the
interface is passed between functional elements by a process of
notifying an addressed functional element that data is ready and
providing the addressed functional element with a corresponding
location in said shared memory, said interface protocol further
being of a type in which a location of information is
distributed among a set of at least two hierarchical levels of a
database formed in association with said shared memory, said
hierarchical levels being organized by degree of generality of
functional interface task information, and the said method
further comprises comprising:

creating an input data file for said test object functional
element by prompting a user for data format and
content compatible with said predetermined interface
protocol;

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storing said input data file;

creating a test generation file by providing said user with
a plurality of task creation options whereby selected
task creation options are input into said test
generation file which is written in a predetermined
high level interface programmers' language adapted for
compilation into computer code executable statements
compatible with said predetermined protocol;

said step of providing the user with a plurality of task options including providing at least one corresponding set of options individually operative with a corresponding individual level of said set of at least two hierarchical levels of said database[[.]];_

compiling said test generation file and said input data
file to produce a test case executable file in a
preferred programming language based on said selected
task creation options;

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initiating a test utilizing said test case executable file
and said input data file for testing said test object
functional element and said at least one interface by
monitoring a status of said test; and

storing test result data related to said test.

12. (original) The method of claim 11 further comprising displaying said input data to a user on a file viewer.

13. (currently amended) The method of claim [[7]] 11 further comprising comparing said test result data with expected results from said test object functional element utilizing said input data file.

14. (canceled).

15. (currently amended) The system of claim [[14]] 19 wherein:

 said input data structure is utilized to prompt a user for test case data being in a form cooperatively associated with said predetermined interface communication protocol to constrain said at least one test case data file to be compatible with said

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predetermined interface protocol;

said plurality of user interface task options provided by
said test case generation file producing subsystem
being in form cooperatively associated with said
predetermined interface communication protocol to
constrain said selected at least one interface task to
be written in a predetermined high level interface
programmers' language adapted for compilation into
computer code executable statements compatible with
said predetermined interface protocol; and

said operation of said test object functional element
effected by said test case execution subsystem
comprising said operation of said test object
functional element using a file of compiled executable
statements based upon said test case data and said
test case generation file.

16. (canceled).

17. (canceled).

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18. (canceled).

19. (previously presented) A system operative for testing performance validity and accuracy of a test object functional element, said test object functional element forming a portion of a computer system, said test object functional element having a plurality of communication interfaces with said test object functional element constrained to be operatively responsive to a predetermined interface communication protocol, said system comprising:

a test case data file producing subsystem for facilitating the production by a user of at least one file of test case data, said test case data producing subsystem being operative for identification of an input data structure and to utilize said input data structure to prompt a user for input values of said test case data, said test case data producing subsystem being operative to store said at least one file of test case data;

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a test case generation file producing subsystem for facilitating the production by said user of a test case generation file, said test case generation file producing subsystem providing a plurality of user interface task options to provide the user with a choice among them in developing a test case generation file of a selected at least one interface task of said plurality of interface tasks, said selected at least one interface task being for communication to said test object functional element through a first predetermined at least one communication interface;

a test case execution subsystem to effect operation of said test object functional element based on said user selected at least one interface task and said at least one file of test case data, whereby said test case execution subsystem enables said user to test said test object functional element for validity and accuracy of its operation by monitoring a second predetermined at least one of the remaining communication of interfaces of said plurality of communication interfaces;

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said interface communication protocol being a protocol
inter-process communication of an application
interface task from said test object functional
element to at least one other functional element which
also forms a portion of said computer system;

said plurality of interfaces including a subsystem for
implementing said inter-process communication
interface protocol comprising a memory operatively
connected to said test object functional element and
to said at least one other functional element by an
arrangement whereby said functional elements share
said memory;

said subsystem for implementing the inter-process
communication interface protocol employing a mode of
operation in which data to be communicated through an
interface is passed between functional elements by a
process of notifying the functional element to which
an application interface task is be communicated that
data is ready and providing the addressed functional
element with the location of the data in said shared
memory;

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said shared memory being adapted to form a database having a set of at least two hierarchical database levels organized by degree of generality of interface task information; and

said plurality of user interface task options provided by said test case generation file producing subsystem including providing at least one corresponding set of options individually operative solely with a corresponding level of said set of at least two hierarchical levels of said database.

20. (canceled).

21. (previously presented) The system of claim 19 wherein:

said input data structure is utilized to prompt a user for test case data being in a form cooperatively associated with said predetermined interface communication protocol to constrain said at least one test data file to be compatible with said predetermined interface protocol;

said plurality of user interface task options provided by

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 said test case generation file producing subsystem
 being in form cooperatively associated with said
 predetermined interface communication protocol to
 constrain said selected at least one interface task to
 be written in a predetermined high level interface
 programmers' language adapted for compilation into
 computer code executable statements compatible with
 said predetermined interface protocol; and

 said operation of said test object functional element
 effected by said test case execution subsystem
 comprising said operation of said test object
 functional element using a file of compiled executable
 statements based upon said test case data and said
 test case generation file.

22. (previously presented) The system of claim 19 wherein said test case execution subsystem is operable to effect operation of another test object functional element simultaneously with operation of said test object functional element.

23. (previously presented) The system of claim 19 wherein said test case execution subsystem is operable to monitor said at

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least one interface between said test object function element
and said another test object functional element.

24. (previously presented) The system of claim 19 wherein said
test case generation file producing subsystem is operative to
provide the user a choice among a plurality test initiative
events to cause the test to be performed upon a selected test
initiation event to start flow of said test case data into said
first functional element.

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